Agricultural Systems 48 (1995) 531–532
Copyright © 1995 Elsevier Science Limited
Printed in Great Britain. All rights reserved

ELSEVIER

Contents of Volume 48

Number 1

1 A Simulation Model of Grazing Sheep: I. Animal Growth and Intake
J. D. FINLAYSON (New Zealand), O. J. CACHO (Australia) &
A. C. BYWATER (New Zealand)

27 A Simulation Model of Grazing Sheep: II. Whole Farm Model
O. J. CACHO (Australia), J. D. FINLAYSON & A. C. BYWATER (New Zealand)

51 Development Patterns under Population Pressure: Agricultural Development and the Cassava–Livestock Interaction in Smallholder Farming Systems in Sub-Saharan Africa
L. CHRISTIAENSEN, E. TOLLENS (Belgium) & C. EZEDINMA (Nigeria)

73 Use of the Beta Distribution for Parameterizing Variability of Soil Properties at the Regional Level for Crop Yield Estimation
J. D. HASKETT, Y. A. PACHEPSKY & B. ACOCK (USA)

87 The Impact of Global Warming on Local Incomes from Range Livestock Systems
J. B. ECKERT (South Africa), B. B. BAKER & J. D. HANSON (USA)

101 Nutrient Depletion by Food Crops in Ghana and Soil Organic Nitrogen Management
E. R. RHODES (Sierra Leone)

Number 2

119 Optimal Grazing of a Multi-paddock System Using a Discrete Time Model
S. J. R. WOODWARD, G. C. WAKE & D. G. McCALL (New Zealand)

141 A Multiple-domain Knowledge Based System: Coordination and Integration of Agronomic and Economic Knowledge Bases with Databases and Bio-economic Models
Z. HOCHMAN, P. T. MEARS, R. J. FARQUHARSON, J. H. HINDMARSH &
C. J. PEARSON (Australia)

163 Integrating Agronomic and Economic Models for Policy Analysis at the Farm Level: the Impact of CAP Reform in Two European Regions
A. B. DONALDSON (UK), G. FLICHMAN (France) & J. P. G. WEBSTER (UK)

179 The Management of Pastoral Grazing Systems Under Biological and Environmental Variation
A. B. PLEASANTS, D. G. McCALL & G. W. SHEATH (New Zealand)

193 Simulation of Multiple Species Pest Damage in Rice Using CERES-rice
H. O. PINNSCHMIDT (Philippines), W. D. BATCHELOR (USA) &
P. S. TENG (Philippines)

223 Measuring Yield Risk Effects of New Technologies with On-farm Trials: a Case Study in North Cameroon
E. LOEHMAN, Z. YU, D. S. NGAMBEKI & R. DEUSON (USA)

241 Editorial Announcement

Number 3

243 X-Breed: a Multiple-domain Knowledge Based System Integrated Through a Blackboard Architecture
Z. HOCHMAN, H. HEARNSHAW, R. BARLOW, J. F. AYRES & C. J. PEARSON (Australia)

271 Optimising Weed Management Using Stochastic Dynamic Programming to Take Account of Uncertain Herbicide Performance
J. E. SELLS (UK)

297 Rationalization of Milk Procurement, Processing and Marketing in Southern India
S. VIJAYALAKSHMI, J. SITARAMASWAMY (India) & J. DE BOER (USA)

315 A Simulation Model Operating with Daily Weather Data to Explore Silage and Haymaking Opportunities in Climatically Different Areas of Scotland
M. B. McGECHAN & G. COOPER (UK)

345 Sustainability Issues for Agricultural Research Strategies in the Semi-arid Tropics: Focus on the Sahel
T. REARDON (USA)

361 Uncertainties in Crop, Soil and Weather Inputs Used in Growth Models: Implications for Simulated Outputs and Their Applications
P. K. AGGARWAL (India)

Number 4

385 Climatic Determinants of Irrigated Rice Performance in the Sahel—I. Photothermal and Micro-climatic Responses of Flowering
M. DINGKUHN, A. SOW, A. SAMB, S. DIACK & F. ASCH (Senegal)

411 Climatic Determinants of Irrigated Rice Performance in the Sahel—II. Validation of Photothermal Constants and Characterization of Genotypes
M. DINGKUHN & K. M. MIEZAN (Senegal)

435 Climatic Determinants of Irrigated Rice Performance in the Sahel—III. Characterizing Environments by Simulating Crop Phenology
M. DINGKUHN (Senegal)

457 Potential of the Sudan's Irrigated Sector in Cereal Grains Production: Analysis of Various Policy Options
H. H. M. FAKI (Sudan), Y. T. GUMAA (UAE) & M. A. ISMAIL (Sudan)

485 Determination of Input and Output Coefficients of Cropping Systems in the European Community
G. H. J. de KONING, H. van KEULEN, R. RABBINGE & H. JANSSEN (The Netherlands)

503 An Exploratory Bioeconomic Model of Pesticide Use for Controlling Feedlot-cattle Pests
A. AZZAM, M. BAKER, I. BERRY & J. CAMPBELL (USA)

515 Environmental–Economic Analysis of Mixed Crop–Livestock Farming
T. J. de KOEIJER, J. A. RENKEMA & J. J. M. van MENSVOORT (The Netherlands)